

HLT_IsoTrack* performance with high pileup

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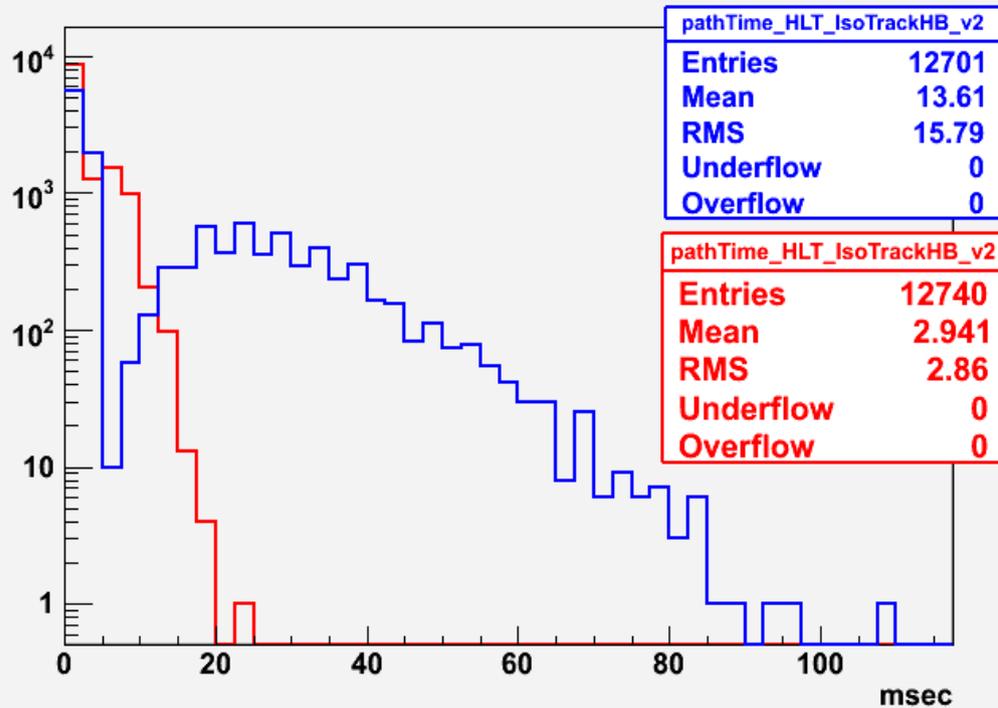
Timing study

- CMSSW_3_11_1_patch2
- Dedicated TSG samples
 - ✓ No PU
 - ✓ PU 10
- 5e32 HLT menu

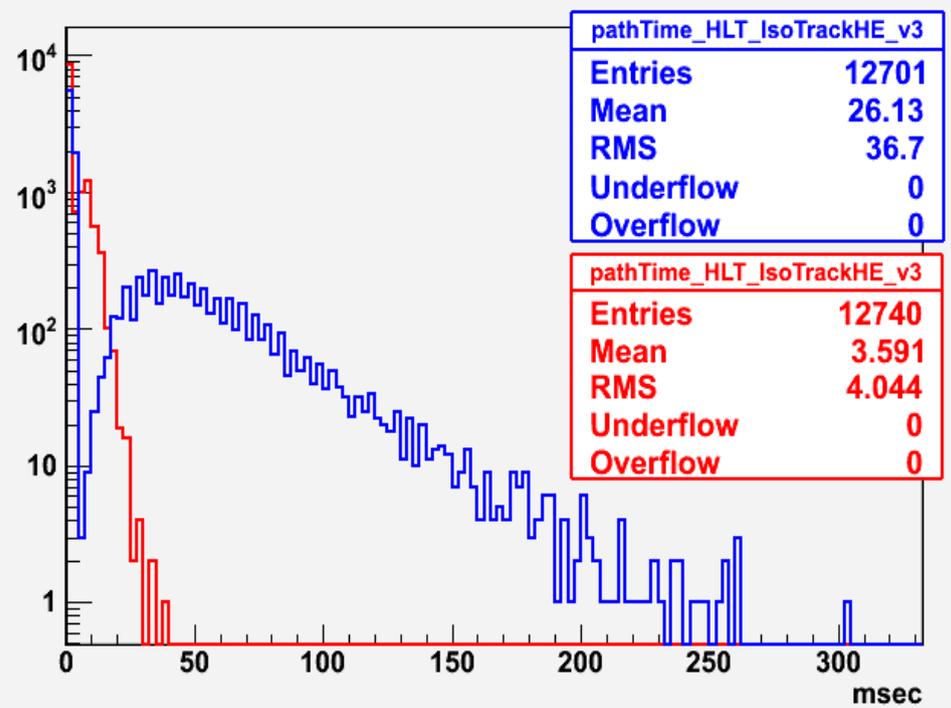
Total path time

- Substantial slow-down for MC with pileup
- Effect on HLT_IsoTrackHE is more dramatic

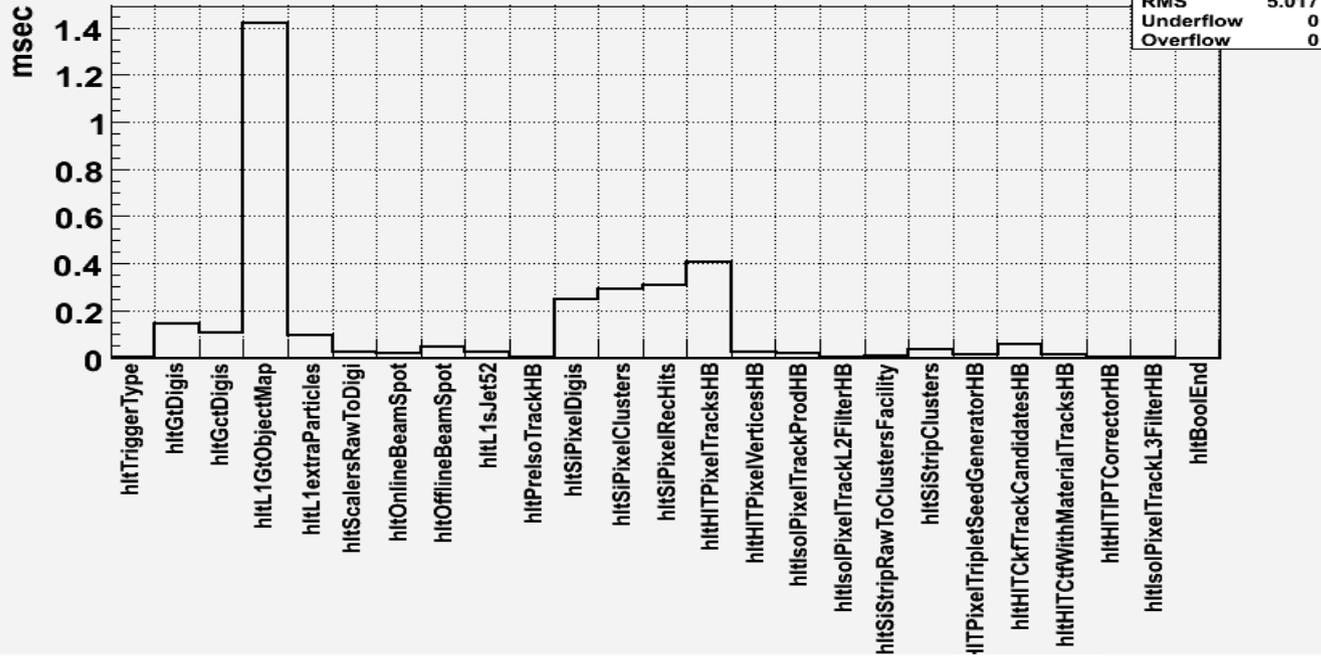
Per event time for path HLT_IsoTrackHB_v2



Per event time for path HLT_IsoTrackHE_v3

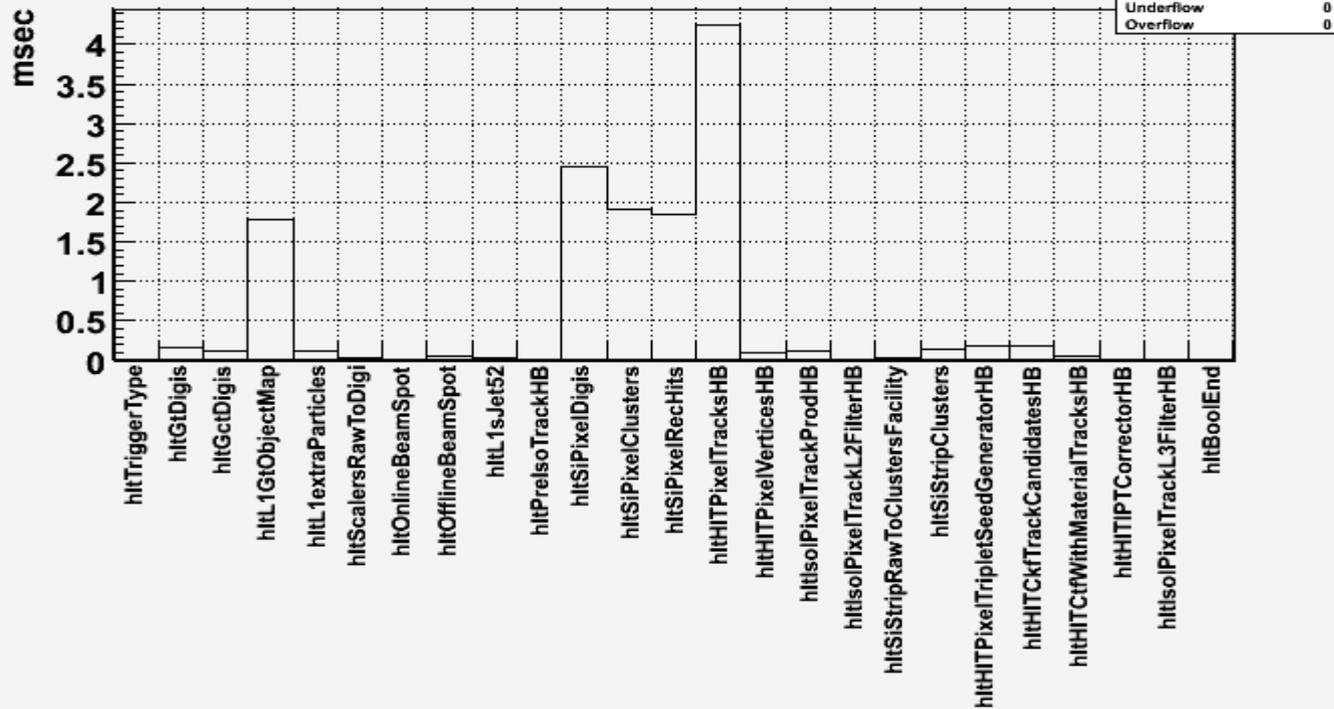


Average module time for path HLT_IsoTrackHB_v2

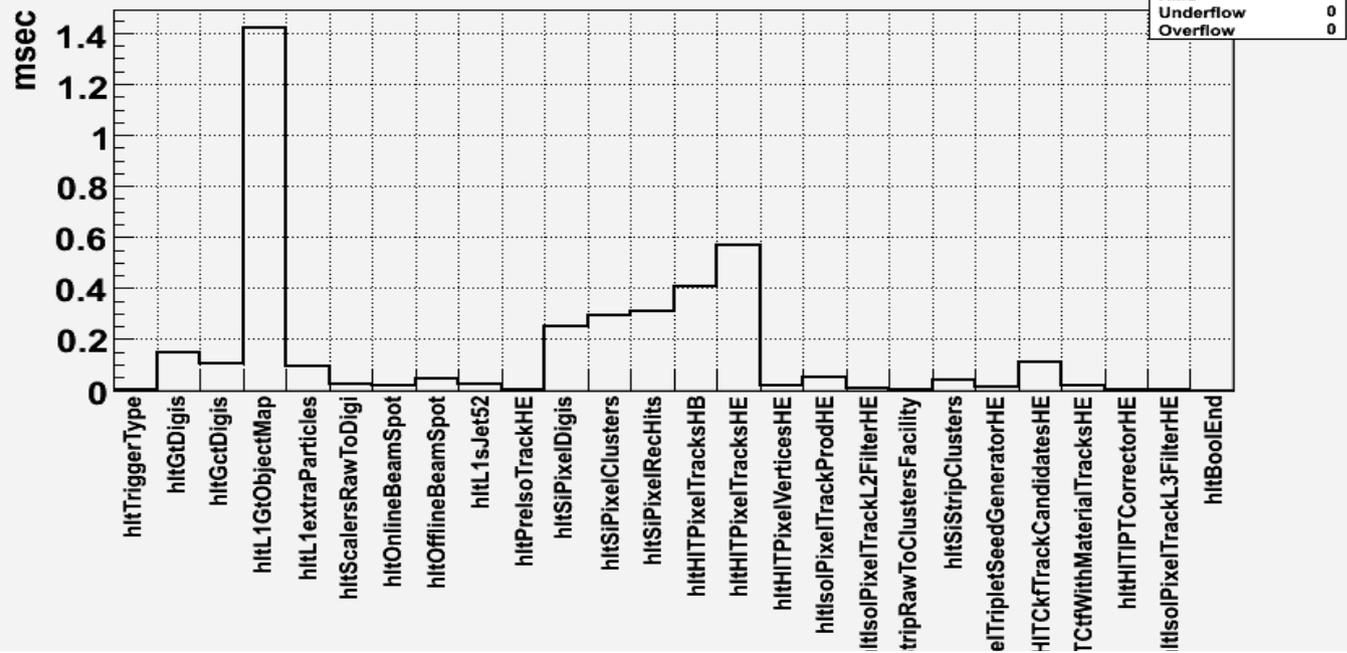


- Most affected modules are pixel tracking

Average module time for path HLT_IsoTrackHB_v2

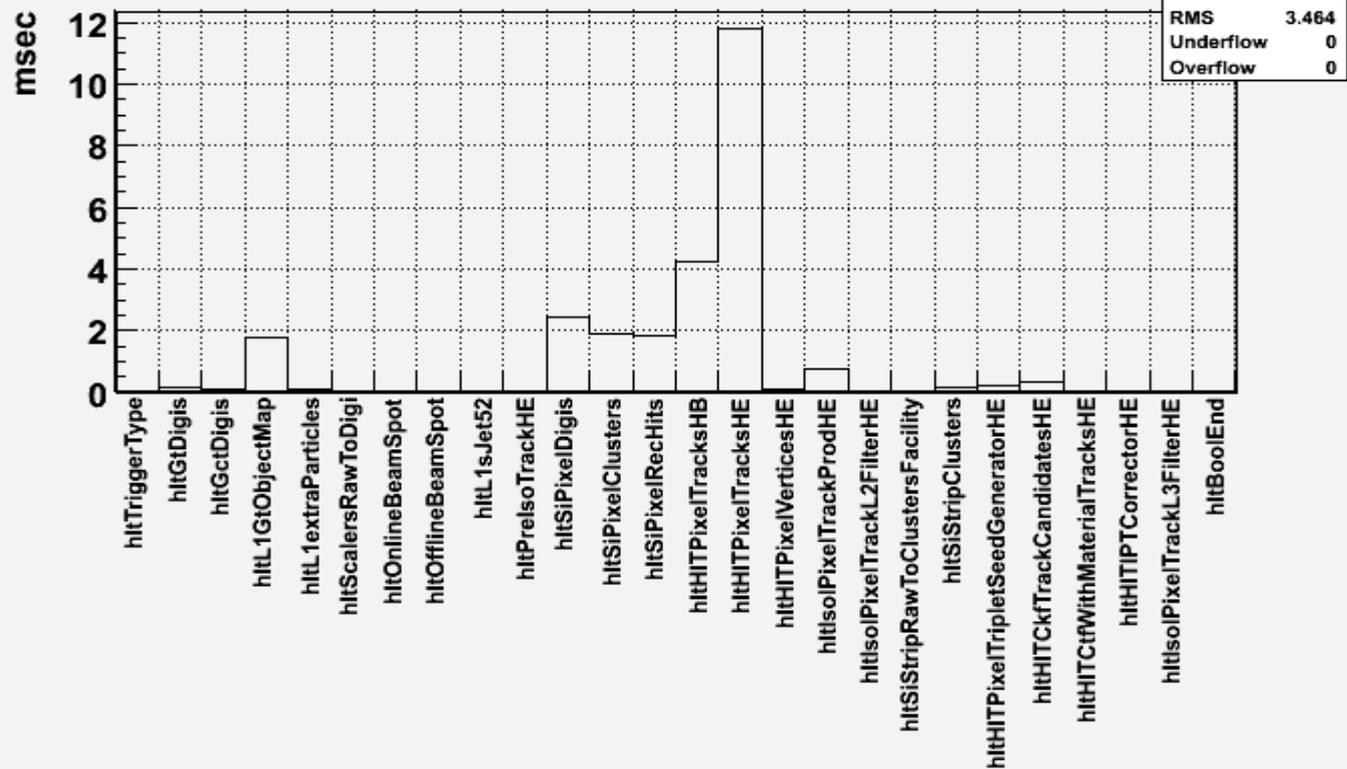


Average module time for path HLT_IsoTrackHE_v3



- Most affected tracking modules are pixel tracking

Average module time for path HLT_IsoTrackHE_v3



- Pixel tracking time for HE

